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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: [year=2010; month=4; day=6; hr=14; min=39; sec=57; ms=399; ]

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Reviewer Comments:

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Invalid explanation for "Xaa" at location 16, Each "Xaa" ca represent only single Amino Acid. If "Xaa" has to be " Phe-Tyr-Leu or His-His-Thr-Phe-Tyr" you have to insert 4 "Xaa's " and inset the locations at numeric identifier <222> and change the total number of Amino Acid bases in numeric identifier <211>.

Please check for similar errors and make all necessary changes.

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Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: Saleem, Syed (ASRC)

Timestamp: [year=2010; month=4; day=5; hr=9; min=33; sec=34; ms=714; ]

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Application No: 10576757 Version No: 4.0

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**Finished:** 2010-03-30 03:00:05.086  
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**No. of SeqIDs Defined:** 29  
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Error Description

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# SEQUENCE LISTING

<110> Winter Sederoff, Heike  
Huber, Steven C  
Larabell, Carolyn A

<120> SYNTHETIC PEPTIDES THAT CAUSE F-ACTIN BUNDLING AND BLOCK ACTIN  
DEPOLYMERIZATION

<130> JIB-1571

<140> 10576757

<141> 2010-03-30

<150> US 60/513,275

<151> 2003-10-20

<160> 29

<170> PatentIn version 3.5

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Ser Lys Lys

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<210> 29

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<222> (12)..(12)

<223> X = Lys, Arg, or His

<400> 29

Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp  
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# SEQUENCE LISTING

<110> Winter Sederoff, Heike  
Huber, Steven C  
Larabell, Carolyn A

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DEPOLYMERIZATION

<130> JIB-1571

<140> 10576757

<141> 2010-03-30

<150> US 60/513,275

<151> 2003-10-20

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<170> PatentIn version 3.5

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Lys Lys

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Ser Lys Lys

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consensus sequence

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His Thr Phe Tyr  
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<210> 20

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<400> 24

Glu Asn Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp Pro

1 5 10 15

Tyr Leu Lys Lys

20

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<220>  
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<220>  
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<220>  
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<223> X= Val or Leu

<220>  
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<222> (6)..(6)  
<223> X= Arg, Tyr or Lys

<220>  
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<220>  
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<222> (10)..(10)  
<223> X= Ser or Asp

<220>  
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<223> X= Arg or Met

<220>  
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<222> (12)..(12)  
<223> X= Glu, Phe, Cys, or Lys

<220>  
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<223> X= Glu, Asp, Lys, Arg, or His

<220>

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<223> X= Ile, Leu, or Val

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<222> (16)..(16)  
<223> X= Phe-Tyr-Leu or His-His-Thr-Phe

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<400> 25

Glu Xaa Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa  
1 5 10 15

<210> 26  
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<212> PRT  
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<223> Motif for a synthetic peptide which causes actin bundling and  
inhbits actin depolymerization

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<221> VARIANT  
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<220>  
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<223> X = Ile or Val

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<223> X = any amino acid

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<400> 26

Glu Xaa Gly Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp  
1 5 10 15

<210> 27

<211> 15  
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<220>  
<223> Motif for a synthetic peptide that causes actin bundling and inhibits actin depolymerization

<220>  
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<223> X= Lys, Arg, or His

<220>  
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<223> X= Ala, Val, Leu, Ile, Phe, Trp, Pro, or Met

<220>  
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<223> X= Lys, Arg, or His

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<222> (9)..(13)  
<223> X= any amino acid

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<221> VARIANT  
<222> (14)..(14)  
<223> X= Ala, Val, Leu, Ile, Phe, Trp, Pro, or Met

<400> 27

Glu Xaa Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp  
1 5 10 15

<210> 28  
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<223> X = Ile, Val, or Leu

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<222> (4)..(4)

<223> X = Arg, Lys, Asn, or Thr

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<222> (5)..(5)

<223> X = Arg, Lys, Asn, or Asp

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<223> X = Ile, Asp, Asn, or Glu

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<223> X = Arg, Met, or Ala

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<223> X =Asp, Glu, Lys, Arg, or His

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<223> X =Val, or Ile

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<222> (14)..(14)

<223> X =Pro, or His

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<223> X =Tyr, or His

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<221> VARIANT

<222> (16)..(16)

<223> X =Leu, or Thr

<400> 28

Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa  
1 5 10 15

<210> 29

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Formula (II) for synthetic active peptides

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<222> (4)..(4)

<223> X = Lys, Arg, or His

<220>

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<222> (5)..(5)

<223> X = any amino acid

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<222> (7)..(11)

<223> X = any amino acid

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<222> (12)..(12)

<223> X = Lys, Arg, or His

<400> 29

Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp  
1 5 10